

Volume VI, Section 9 — Rigorous Secondary School Programs of Study, and Eligible Majors

Introduction

This section provides the Rigorous Secondary School Programs of Study for the Academic Competitiveness Grant (ACG) and the Eligible Majors (Program CIP Codes) for the National SMART Grant.

Additional information on these programs can be found on the Office of Postsecondary Education website at <http://www.ed.gov/about/offices/list/ope/ac-smart.html>.

Academic Competitiveness Grant (ACG)

To be eligible for an ACG, a student must meet the criteria outlined in DCL GEN-06-08 and in the interim regulations.

- Student *may not* receive ACG concurrently from more than one school.
- Student *must* receive ACG from same school from which Pell Grant is received.

First year students

- May not have been previously enrolled in a program of undergraduate education.
- Have completed secondary school program of study after January 1, 2006.

Second year students

- Have completed secondary school program of study after January 1, 2005.
- Have at least a 3.0 Grade Point Average (G.P.A.)
- Students must have completed a rigorous secondary school program of study.

Options for Meeting Rigorous Program Definition

Eligibility/Payment Reason Code	Reason Description
01	State Designated Program <ul style="list-style-type: none">• State Submitted Program• An advanced or honors secondary school program established by a state and in existence for the 04-05 or 05-06 school year.• State Scholars Initiative
02	Completion of at least two Advanced Placement courses with passing test score of 3 or two International Baccalaureate courses with passing test score of 4.
03	The student has completed a high school course of study with at least: <ul style="list-style-type: none">• Four years of high school English;• Three years of high school math, including Algebra I and another higher level math course;• Three years of high school science, which must include two years of biology, chemistry, or physics;• Three years of high school social studies; and• One year of high school language other than English

Eligibility/Payment Reason Codes

Schools must submit to COD the appropriate Eligibility/Payment Reason Code for each ACG award.
Valid values are:

01 = Rigorous High School Program

02 = Advanced Placement/International Baccalaureate Coursework

03 = Coursework

When the Eligibility/Payment Reason Code = 01, a school must also submit to COD the appropriate Rigorous High School Program Code. This code is a 6 position (alpha numerical string). This section provides the listing of Rigorous High School Program Codes by state.

Rigorous Secondary (High) School Programs of Study

Program Name	Code
Alabama	
Alabama Advanced Academic Endorsement	AL0001
High Schools That Work Award of Educational Achievement	AL0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Alaska	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
American Samoa	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Arizona	
Arizona Dual Credit Coursework Program	AZ0001
Arizona State Scholars Initiative	AZ6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Arkansas	
Arkansas Academic Challenge Core Curriculum	AR0001
Arkansas Coursework Option	AR0002
Arkansas State Scholars Initiative	AR6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
California	
California Golden State Seal Merit Diploma	CA0001
California A-G Requirements	CA0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Colorado	
Colorado Higher Education Admission Requirements (HEAR)	CO0001
Colorado State Scholars Initiative	CO6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Connecticut	
Connecticut Technical High School System Program	CT0001
Connecticut Dual Enrollment Program	CT0002
Connecticut State Scholars Initiative	CT6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001

Program Name	Code
Delaware	
Delaware Distinguished Achievement Diploma	DE0001
High Schools That Work Award of Educational Achievement	DE0002
Delaware Coursework Requirements	DE0003
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Department of Defense	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
District of Columbia	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Florida	
Florida Bright Futures Program	FL0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Georgia	
Georgia College Preparatory with Distinction Diploma	GA0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Guam	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Hawaii	
High Schools That Work Award of Educational Achievement	HI0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Idaho	
Idaho College Admission Core	ID0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Illinois	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Indiana	
Indiana Academic Honors Diploma	IN0001
Indiana Core 40	IN0002
Indiana State Scholars Initiatives	IN6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Iowa	
Iowa Coursework Requirements	IA0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Kansas	
Kansas Scholars Curriculum	KS0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001

Program Name	Code
Kentucky	
Kentucky Commonwealth Diploma	KY0001
Kentucky PreCollege Curriculum	KY0002
Kentucky State Scholars Initiative	KY6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Louisiana	
Louisiana Academic Endorsement to the Standard Diploma	LA0001
Louisiana's TOPS/Regents High School Core Curriculum	LA0002
Standard Diploma with Career and Technical Endorsements, for those students who have completed the TOPS/Regents High School Core Curriculum	LA0003
Louisiana State Scholars Initiative	LA6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Maine	
Maine Coursework Program Number One	ME0001
Maine Coursework Program Number Two	ME0002
Maine Advanced Placement Program	ME0003
Maine Dual Enrollment Program	ME0004
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Maryland	
Maryland State Scholars Initiative	MD6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Massachusetts	
Massachusetts Certificate of Mastery	MA0001
Massachusetts Board of Higher Education Admissions Criteria	MA0002
Massachusetts State Scholars Initiative	MA6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Michigan	
Michigan Merit Standard	MI0001
Michigan State Scholars Initiative	MI6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Minnesota	
Minnesota Coursework Requirements	MN0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Mississippi	
Mississippi Dual Enrollment Program at Study	MS0001

Program Name	Code
Mississippi State Scholars Initiative	MS6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Missouri	
Missouri College Preparatory Studies Certificate	MO0001
Missouri High School Core Curriculum Requirements	MO0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Montana	
Montana Rigorous Core	MT0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Nebraska	
Nebraska State Scholars Initiative	NE6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Nevada	
Nevada Advanced Diploma	NV0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
New Hampshire	
New Hampshire Dual Enrollment Program	NH0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
New Jersey	
New Jersey State Scholars Initiative	NJ6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
New Mexico	
New Mexico State Scholars Initiative	NM6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
New York	
New York Regents Diploma with Honors or Advanced Designation	NY0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
North Carolina	
North Carolina College/University Preparation Course of Study	NC0001
North Carolina State Scholars Initiative	NC6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
North Dakota	
North Dakota Admission Standards to Baccalaureate and Graduate Institutions	ND0001
North Dakota Dual Enrollment Program	ND0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001

Program Name	Code
Ohio	
Ohio Honors Diploma	OH0001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Oklahoma	
Oklahoma Certificate of Distinction	OK0001
High Schools That Work Award of Educational Achievement	OK0002
Oklahoma Higher Learning Access Program (OHLAP)	OK0003
Oklahoma State Scholars Initiative	OK6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Oregon	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Pennsylvania	
Pennsylvania Certificate of Distinction	PA0001
High Schools That Work Award of Educational Achievement	PA0002
Project 720 College and Career Prep Course Sequence	PA0003
Pennsylvania Dual Enrollment Program	PA0004
Pennsylvania Admission Requirements to State Institutions of Higher Education	PA0005
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Puerto Rico	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Rhode Island	
Rhode Island State Scholars Initiative	RI6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
South Carolina	
High Schools That Work Award of Educational Achievement	SC0001
South Carolina Academic Achievement Honors Award	SC0002
College Preparatory Course Prerequisite Requirements	SC0003
Department of Defense Education Activity (DoDEA) Requirement	DD0001
South Dakota	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Tennessee	
Tennessee University Path Curriculum	TN0001
Tennessee Dual Enrollment Program	TN0002
Tennessee State Scholars Initiative	TN6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Texas	

Program Name	Code
Texas Distinguished Achievement Diploma	TX0001
Texas Recommended High School Program	TX0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Utah	
Utah Concurrent Enrollment Program	UT0001
Utah State Scholars Initiative	UT6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Vermont	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Virginia	
Virginia Advanced Studies Diploma	VA0001
Virginia Coursework Requirements	VA0002
Virginia State Scholars Initiatives	VA6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Virgin Islands	
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Washington	
Washington Scholar Designation	WA0001
Washington Coursework Requirements	WA0002
Washington State Scholars Initiative	WA6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
West Virginia	
High Schools That Work Award of Educational Achievement	WV0001
West Virginia PROMISE	WV0002
West Virginia Earn a Degree-Graduate Early (EDGE)	WV0003
West Virginia Dual Credit Program	WV0004
West Virginia State Scholars Initiative	WV6001
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Wisconsin	
Wisconsin Coursework Requirements	WI0001
Wisconsin Dual Enrollment Program	WI0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001
Wyoming	
Wyoming Advanced Endorsement Diploma	WY0001
Assured Admission to the University of Wyoming	WY0002
Department of Defense Education Activity (DoDEA) Requirement	DD0001

National Science and Mathematics Access to Retain Talent (SMART) Grant

Eligible Majors (Program CIP Code)

To be eligible for a National SMART Grant, a student must meet the criteria outlined in DCL GEN-06-08 and in the interim regulations.

- Student *may not* receive a National SMART Grant concurrently from more than one school.
- Student *must* receive a National SMART Grant from same school from which Pell Grant is received.
- Have at least a 3.0 Grade Point Average (G.P.A).
- Limited to 3rd and 4th year students
- Eligible majors identified annually in Physical science, Life science, Computer Science, Engineering, Mathematics, Technology, and Critical foreign language.
- See GEN-06-06 published May 2, 2006 for eligible majors.

A school must submit to COD the appropriate NCES CIP code for a National SMART award. This code is 7 positions including a decimal (numerical string). These codes are also listed in the attachment to GEN-06-06 published May 2, 2006.

Computer Science: The branch of knowledge or study of computers, including such fields of knowledge or study as computer hardware, computer software, computer engineering, information systems, and robotics.

- 11.01 Computer and Information Sciences, General
 - 11.0101 Computer and Information Sciences, General
 - 11.0102 Artificial Intelligence and Robotics
 - 11.0103 Information Technology
 - 11.0199 Computer and Information Sciences, Other
- 11.02 Computer Programming
 - 11.0201 Computer Programming/Programmer, General
 - 11.0202 Computer Programming, Specific Applications
 - 11.0203 Computer Programming, Vendor/Product Certification
 - 11.0299 Computer Programming, Other
- 11.03 Data Processing
 - 11.0301 Data Processing and Data Processing Technology/Technician
- 11.04 Information Science/Studies
 - 11.0401 Information Science/Studies
- 11.05 Computer Systems Analysis
 - 11.0501 Computer Systems Analysis/Analyst
- 11.07 Computer Science
 - 11.0701 Computer Science
- 11.08 Computer Software and Media Applications
 - 11.0801 Web Page, Digital/Multimedia and Information Resources Design

- 11.0802 Data Modeling/Warehousing and Database Administration
- 11.0803 Computer Graphics
- 11.0899 Computer Software and Media Applications, Other
- 11.09 Computer Systems Networking and Telecommunications
 - 11.0901 Computer Systems Networking and Telecommunications
- 11.10 Computer/Information Technology Administration and Management
 - 11.1001 System Administration/Administrator
 - 11.1002 System, Networking, and LAN/WAN Management/Manager
 - 11.1003 Computer and Information Systems Security
 - 11.1004 Web/Multimedia Management and Webmaster
 - 11.1099 Computer/Information Technology Services Administration and Management, Other
- 11.99 Computer and Information Sciences and Support Services, Other.
 - 11.9999 Computer and Information Sciences and Support Services, Other

Engineering: The science by which the properties of matter and the sources of energy in nature are made useful to humanity in structures, machines, and products, as in the construction of engines, bridges, buildings, mines, and chemical plants, including such fields of knowledge or study as aeronautical engineering, chemical engineering, civil engineering, electrical engineering, industrial engineering, materials engineering, manufacturing engineering, and mechanical engineering.

- 14.01 Engineering, General
 - 14.0101 Engineering, General
- 14.02 Aerospace, Aeronautical and Astronautical Engineering
 - 14.0201 Aerospace, Aeronautical and Astronautical Engineering
- 14.03 Agricultural/Biological Engineering and Bioengineering
 - 14.0301 Agricultural/Biological Engineering and Bioengineering
- 14.04 Architectural Engineering
 - 14.0401 Architectural Engineering
- 14.05 Biomedical/Medical Engineering
 - 14.0501 Biomedical/Medical Engineering
- 14.06 Ceramic Sciences and Engineering
 - 14.0601 Ceramic Sciences and Engineering
- 14.07 Chemical Engineering
 - 14.0701 Chemical Engineering
- 14.08 Civil Engineering
 - 14.0801 Civil Engineering, General
 - 14.0802 Geotechnical Engineering
 - 14.0803 Structural Engineering
 - 14.0804 Transportation and Highway Engineering
 - 14.0805 Water Resources Engineering
 - 14.0899 Civil Engineering, Other
- 14.09 Computer Engineering, General
 - 14.0901 Computer Engineering, General
 - 14.0902 Computer Hardware Engineering
 - 14.0903 Computer Software Engineering
 - 14.0999 Computer Engineering, Other

- 14.10 Electrical, Electronics and Communications Engineering
 - 14.1001 Electrical, Electronics and Communications Engineering
- 14.11 Engineering Mechanics
 - 14.1101 Engineering Mechanics
- 14.12 Engineering Physics
 - 14.1201 Engineering Physics
- 14.13 Engineering Science
 - 14.1301 Engineering Science
- 14.14 Environmental/Environmental Health Engineering
 - 14.1401 Environmental/Environmental Health Engineering
- 14.18 Materials Engineering
 - 14.1801 Materials Engineering
- 14.19 Mechanical Engineering
 - 14.1901 Mechanical Engineering
- 14.20 Metallurgical Engineering
 - 14.2001 Metallurgical Engineering
- 14.21 Mining and Mineral Engineering
 - 14.2101 Mining and Mineral Engineering
- 14.22 Naval Architecture and Marine Engineering
 - 14.2201 Naval Architecture and Marine Engineering
- 14.23 Nuclear Engineering
 - 14.2301 Nuclear Engineering
- 14.24 Ocean Engineering
 - 14.2401 Ocean Engineering
- 14.25 Petroleum Engineering
 - 14.2501 Petroleum Engineering
- 14.27 Systems Engineering
 - 14.2701 Systems Engineering
- 14.28 Textile Sciences and Engineering
 - 14.2801 Textile Sciences and Engineering
- 14.31 Materials Science
 - 14.3101 Materials Science
- 14.32 Polymer/Plastics Engineering
 - 14.3201 Polymer/Plastics Engineering
- 14.33 Construction Engineering
 - 14.3301 Construction Engineering
- 14.34 Forest Engineering
 - 14.3401 Forest Engineering
- 14.35 Industrial Engineering
 - 14.3501 Industrial Engineering
- 14.36 Manufacturing Engineering
 - 14.3601 Manufacturing Engineering
- 14.37 Operations Research
 - 14.3701 Operations Research
- 14.38 Surveying Engineering
 - 14.3801 Surveying Engineering
- 14.39 Geological/Geophysical Engineering
 - 14.3901 Geological/Geophysical Engineering

- 14.99 Engineering, Other
- 14.9999 Engineering, Other

Foreign Language: Instructional programs that focus on foreign languages and literatures, the humanistic and scientific study of linguistics, and the provision of professional interpretation and translation services.

- 16.0201 African Languages, Literatures, and Linguistics
- 16.0301 Chinese Language and Literature
- 16.0302 Japanese Language and Literature
- 16.0303 Korean Language and Literature
- 16.0402 Russian Language and Literature
- 16.0701 Hindi Language and Literature
- 16.0704 Bengali Language and Literature
- 16.0705 Panjabi Language and Literature
- 16.0707 Urdu Language and Literature
- 16.0801 Iranian/Persian Languages, Literatures, and Linguistics
- 16.0904 Portuguese Language and Literature
- 16.1101 Arabic Language and Literature
- 16.1102 Hebrew Language and Literature
- 16.1402 Bahasa Indonesian/Bahasa Malay Languages and Literatures
- 16.1404 Filipino/Tagalog Language and Literature
- 16.1501 Turkish Language and Literature
- 16.1599 Turkic, Ural-Altaic, Caucasian, and Central Asian Languages, Literatures, and Linguistics, Other

Life sciences: The branch of knowledge or study of living things, including such fields of knowledge or study as biology, biochemistry, biophysics, microbiology, genetics, physiology, botany, zoology, ecology, and behavioral biology, except that the term does not encompass the health professions.

- 26. BIOLOGICAL AND BIOMEDICAL SCIENCES
- 26.01 Biology, General
 - 26.0101 Biology/Biological Sciences, General
 - 26.0102 Biomedical Sciences, General
- 26.02 Biochemistry, Biophysics and Molecular Biology
 - 26.0202 Biochemistry
 - 26.0203 Biophysics
 - 26.0204 Molecular Biology
 - 26.0205 Molecular Biochemistry
 - 26.0206 Molecular Biophysics
 - 26.0207 Structural Biology
 - 26.0208 Photobiology
 - 26.0209 Radiation Biology/Radiobiology
 - 26.0210 Biochemistry/Biophysics and Molecular Biology
 - 26.0299 Biochemistry, Biophysics and Molecular Biology, Other
- 26.03 Botany/Plant Biology
 - 26.0301 Botany/Plant Biology
 - 26.0305 Plant Pathology/Phytopathology

- 26.0307 Plant Physiology
- 26.0308 Plant Molecular Biology
- 26.0399 Botany/Plant Biology, Other
- 26.04 Cell/Cellular Biology and Anatomical Sciences
 - 26.0401 Cell/Cellular Biology and Histology
 - 26.0403 Anatomy
 - 26.0404 Developmental Biology and Embryology
 - 26.0405 Neuroanatomy
 - 26.0406 Cell/Cellular and Molecular Biology
 - 26.0407 Cell Biology and Anatomy
 - 26.0499 Cell/Cellular Biology and Anatomical Sciences, Other
- 26.05 Microbiological Sciences and Immunology
 - 26.0502 Microbiology, General
 - 26.0503 Medical Microbiology and Bacteriology
 - 26.0504 Virology
 - 26.0505 Parasitology
 - 26.0506 Mycology
 - 26.0507 Immunology
 - 26.0599 Microbiological Sciences and Immunology, Other
- 26.07 Zoology/Animal Biology
 - 26.0701 Zoology/Animal Biology
 - 26.0702 Entomology
 - 26.0707 Animal Physiology
 - 26.0708 Animal Behavior and Ethology
 - 26.0709 Wildlife Biology
 - 26.0799 Zoology/Animal Biology, Other
- 26.08 Genetics
 - 26.0801 Genetics, General
 - 26.0802 Molecular Genetics
 - 26.0803 Microbial and Eukaryotic Genetics
 - 26.0804 Animal Genetics
 - 26.0805 Plant Genetics
 - 26.0806 Human/Medical Genetics
 - 26.0899 Genetics, Other
- 26.09 Physiology, Pathology and Related Sciences
 - 26.0901 Physiology, General
 - 26.0902 Molecular Physiology
 - 26.0903 Cell Physiology
 - 26.0904 Endocrinology
 - 26.0905 Reproductive Biology
 - 26.0906 Neurobiology and Neurophysiology
 - 26.0907 Cardiovascular Science
 - 26.0908 Exercise Physiology
 - 26.0909 Vision Science/Physiological Optics
 - 26.0910 Pathology/Experimental Pathology
 - 26.0911 Oncology and Cancer Biology
 - 26.0999 Physiology, Pathology, and Related Sciences, Other

- 26.10 Pharmacology and Toxicology
 - 26.1001 Pharmacology
 - 26.1002 Molecular Pharmacology
 - 26.1003 Neuropharmacology
 - 26.1004 Toxicology
 - 26.1005 Molecular Toxicology
 - 26.1006 Environmental Toxicology
 - 26.1007 Pharmacology and Toxicology
 - 26.1099 Pharmacology and Toxicology, Other
- 26.11 Biomathematics and Bioinformatics
 - 26.1101 Biometry/Biometrics
 - 26.1102 Biostatistics
 - 26.1103 Bioinformatics
 - 26.1199 Biomathematics and Bioinformatics, Other
- 26.12 Biotechnology
 - 26.1201 Biotechnology
- 26.13 Ecology, Evolution, Systematics and Population Biology
 - 26.1301 Ecology
 - 26.1302 Marine Biology and Biological Oceanography
 - 26.1303 Evolutionary Biology
 - 26.1304 Aquatic Biology/Limnology
 - 26.1305 Environmental Biology
 - 26.1306 Population Biology
 - 26.1307 Conservation Biology
 - 26.1308 Systematic Biology/Biological Systematics
 - 26.1309 Epidemiology
 - 26.1399 Ecology, Evolution, Systematics and Population Biology, Other
- 26.99 Biological and Biomedical Sciences, Other
 - 26.9999 Biological and Biomedical Sciences, Other
- 01. AGRICULTURE, AGRICULTURE OPERATIONS, AND RELATED SCIENCES
- 01.09 Animal Sciences
 - 01.0901 Animal Sciences, General
 - 01.0902 Agricultural Animal Breeding
 - 01.0903 Animal Health
 - 01.0904 Animal Nutrition
 - 01.0905 Dairy Science
 - 01.0906 Livestock Management
 - 01.0907 Poultry Science
 - 01.0999 Animal Sciences, Other
- 01.11 Plant Sciences
 - 01.1101 Plant Sciences, General
 - 01.1102 Agronomy and Crop Science
 - 01.1103 Horticultural Science
 - 01.1104 Agricultural and Horticultural Plant Breeding
 - 01.1105 Plant Protection and Integrated Pest Management
 - 01.1106 Range Science and Management

- 01.1199 Plant Sciences, Other
- 01.12 Soil Sciences
 - 01.1201 Soil Science and Agronomy, General
 - 01.1202 Soil Chemistry and Physics
 - 01.1203 Soil Microbiology
 - 01.1299 Soil Sciences, Other

Mathematics: The branch of knowledge or study of numbers and the systematic treatment of magnitude, relationships between figures and forms, and relations between quantities expressed symbolically, including such fields of knowledge or study as statistics, applied mathematics, and operations research.

- 27.01 Mathematics
 - 27.0101 Mathematics, General
 - 27.0102 Algebra and Number Theory
 - 27.0103 Analysis and Functional Analysis
 - 27.0104 Geometry/Geometric Analysis
 - 27.0105 Topology and Foundations
 - 27.0199 Mathematics, Other
- 27.03 Applied Mathematics
 - 27.0301 Applied Mathematics
 - 27.0303 Computational Mathematics
 - 27.0399 Applied Mathematics, Other
- 27.05 Statistics
 - 27.0501 Statistics, General
 - 27.0502 Mathematical Statistics and Probability
 - 27.0599 Statistics, Other
- 27.99 Mathematics and Statistics, Other
 - 27.9999 Mathematics and Statistics, Other

Physical sciences: The branch of knowledge or study of the material universe, including such fields of knowledge or study as astronomy, atmospheric sciences, chemistry, earth sciences, ocean sciences, physics, and planetary sciences.

- 40.01 Physical Sciences
 - 40.0101 Physical Sciences
- 40.02 Astronomy and Astrophysics
 - 40.0201 Astronomy
 - 40.0202 Astrophysics
 - 40.0203 Planetary Astronomy and Science
 - 40.0299 Astronomy and Astrophysics, Other
- 40.04 Atmospheric Sciences and Meteorology
 - 40.0401 Atmospheric Sciences and Meteorology, General
 - 40.0402 Atmospheric Chemistry and Climatology
 - 40.0403 Atmospheric Physics and Dynamics
 - 40.0404 Meteorology
 - 40.0499 Atmospheric Sciences and Meteorology, Other

- 40.05 Chemistry
 - 40.0501 Chemistry General
 - 40.0502 Analytical Chemistry
 - 40.0503 Inorganic Chemistry
 - 40.0504 Organic Chemistry
 - 40.0506 Physical and Theoretical Chemistry
 - 40.0507 Polymer Chemistry
 - 40.0508 Chemical Physics
 - 40.0599 Chemistry, Other
- 40.06 Geological and Earth Sciences/Geosciences
 - 40.0601 Geology/Earth Science, General
 - 40.0602 Geochemistry
 - 40.0603 Geophysics and Seismology
 - 40.0604 Paleontology
 - 40.0605 Hydrology and Water Resources Science
 - 40.0606 Geochemistry and Petrology
 - 40.0607 Oceanography, Chemical and Physical
 - 40.0699 Geological and Earth Sciences/Geosciences, Other
- 40.08 Physics
 - 40.0801 Physics, General
 - 40.0802 Atomic/Molecular Physics
 - 40.0804 Elementary Particle Physics
 - 40.0805 Plasma and High-Temperature Physics
 - 40.0806 Nuclear Physics
 - 40.0807 Optics/Optical Sciences
 - 40.0808 Solid State and Low-Temperature Physics
 - 40.0809 Acoustics
 - 40.0810 Theoretical and Mathematical Physics
 - 40.0899 Physics, Other
- 40.99 Physical Sciences, Other
 - 40.9999 Physical Sciences, Other

Technology: The application of mechanical or scientific knowledge, for example, applied science.

- 15. ENGINEERING TECHNOLOGIES/TECHNICIANS
- 15.00 Engineering Technology, General
 - 15.0000 Engineering Technology, General
- 15.01 Architectural Engineering Technologies/Technicians
 - 15.0101 Architectural Engineering Technology/Technician
- 15.02 Civil Engineering Technologies/Technicians
 - 15.0201 Civil Engineering Technology/Technician
- 15.03 Electrical Engineering Technologies/Technicians
 - 15.0303 Electrical, Electronic and Communications Engineering Technology/Technician
 - 15.0304 Laser and Optical Technology/Technician
 - 15.0305 Telecommunications Technology/Technician
 - 15.0399 Electrical and Electronic Engineering Technologies/Technicians,

- Other
- 15.04 Electromechanical Instrumentation and Maintenance Technologies/Technicians
 - 15.0401 Biomedical Technology/Technician
 - 15.0403 Electromechanical Technology/Electromechanical Engineering Technology
 - 15.0404 Instrumentation Technology/Technician
 - 15.0405 Robotics Technology/Technician
 - 15.0499 Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other
 - 15.05 Environmental Control Technologies/Technicians
 - 15.0503 Energy Management and Systems Technology/Technician
 - 15.0505 Solar Energy Technology/Technician
 - 15.0506 Water Quality and Wastewater Treatment Management and Recycling Technology/Technician
 - 15.0507 Environmental Engineering Technology/Environmental Technology
 - 15.0508 Hazardous Materials Management and Waste Technology/Technician
 - 15.0599 Environmental Control Technologies/Technicians, Other
 - 15.06 Industrial Production Technologies/Technicians
 - 15.0607 Plastics Engineering Technology/Technician
 - 15.0611 Metallurgical Technology/Technician
 - 15.0612 Industrial Technology/Technician
 - 15.0613 Manufacturing Technology/Technician
 - 15.0699 Industrial Production Technologies/Technicians, Other
 - 15.07 Quality Control and Safety Technologies/Technicians
 - 15.0701 Occupational Safety and Health Technology/Technician
 - 15.0702 Quality Control Technology/Technician
 - 15.0703 Industrial Safety Technology/Technician
 - 15.0704 Hazardous Materials Information Systems Technology/Technician
 - 15.0799 Quality Control and Safety Technologies/Technicians, Other
 - 15.08 Mechanical Engineering Related Technologies/Technicians
 - 15.0801 Aeronautical/Aerospace Engineering Technology/Technician
 - 15.0803 Automotive Engineering Technology/Technician
 - 15.0805 Mechanical Engineering/Mechanical Technology/Technician
 - 15.0899 Mechanical Engineering Related Technologies/Technicians, Other
 - 15.09 Mining and Petroleum Technologies/Technicians
 - 15.0901 Mining Technology/Technician
 - 15.0903 Petroleum Technology/Technician
 - 15.0999 Mining and Petroleum Technologies/Technicians, Other
 - 15.10 Construction Engineering Technologies
 - 15.1001 Construction Engineering Technology/Technician
 - 15.11 Engineering-Related Technologies
 - 15.1102 Surveying Technology/Surveying
 - 15.1103 Hydraulics and Fluid Power Technology/Technician
 - 15.1199 Engineering-Related Technologies, Other
 - 15.12 Computer Engineering Technologies/Technicians
 - 15.1201 Computer Engineering Technology/Technician

- 15.1202 Computer Technology/Computer Systems Technology
- 15.1203 Computer Hardware Technology/Technician
- 15.1204 Computer Software Technology/Technician
- 15.1299 Computer Engineering Technologies/Technicians, Other
- 15.13 Drafting/Design Engineering Technologies/Technicians
 - 15.1301 Drafting and Design Technology/Technician, General
 - 15.1302 CAD/CADD Drafting and/or Design Technology/Technician
 - 15.1303 Architectural Drafting and Architectural CAD/CADD
 - 15.1304 Civil Drafting and Civil Engineering CAD/CADD
 - 15.1305 Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD
 - 15.1306 Mechanical Drafting and Mechanical Drafting CAD/CADD
 - 15.1399 Drafting/Design Engineering Technologies/Technicians, Other
- 15.14. Nuclear Engineering Technologies/Technicians
 - 15.1401 Nuclear Engineering Technology/Technician
- 15.15 Engineering-Related Fields
 - 15.1501 Engineering/Industrial Management
- 15.99 Engineering Technologies/Technicians, Other
 - 15.9999 Engineering Technologies/Technicians, Other
- 29. MILITARY TECHNOLOGIES
 - 29.01 Military Technologies
 - 29.0101 Military Technologies
- 41. SCIENCE TECHNOLOGIES/TECHNICIANS
 - 41.01 Biology Technician/Biotechnology Laboratory Technician
 - 41.0101 Biology Technician/Biotechnology Laboratory Technician
 - 41.02 Nuclear and Industrial Radiologic Technologies/Technicians
 - 41.0204 Industrial Radiologic Technology/Technician
 - 41.0205 Nuclear/Nuclear Power Technology/Technician
 - 41.0299 Nuclear and Industrial Radiologic Technologies/Technicians, Other
 - 41.03 Physical Science Technologies/Technicians
 - 41.0301 Chemical Technology/Technician
 - 41.0399 Physical Science Technologies/Technicians, Other
 - 41.99 Science Technologies/Technicians, Other
 - 41.9999 Science Technologies/Technicians, Other

Several **Multidisciplinary Studies** are also considered eligible for National SMART Grants.

- 30. MULTI/INTERDISCIPLINARY STUDIES
 - 30.01 Biological and Physical Sciences
 - 30.0101 Biological and Physical Sciences
 - 30.06 Systems Science and Theory
 - 30.0601 Systems Science and Theory
 - 30.08 Mathematics and Computer Science
 - 30.0801 Mathematics and Computer Science
 - 30.15 Science, Technology and Society
 - 30.1501 Science, Technology and Society
 - 30.16 Accounting and Computer Science

- 30.1601 Accounting and Computer Science
- 30.18 Natural Sciences
 - 30.1801 Natural Sciences
- 30.24 Neuroscience
 - 30.2401 Neuroscience
- 30.25 Cognitive Science
 - 30.2501 Cognitive Science